TOSTAT' STESBOT

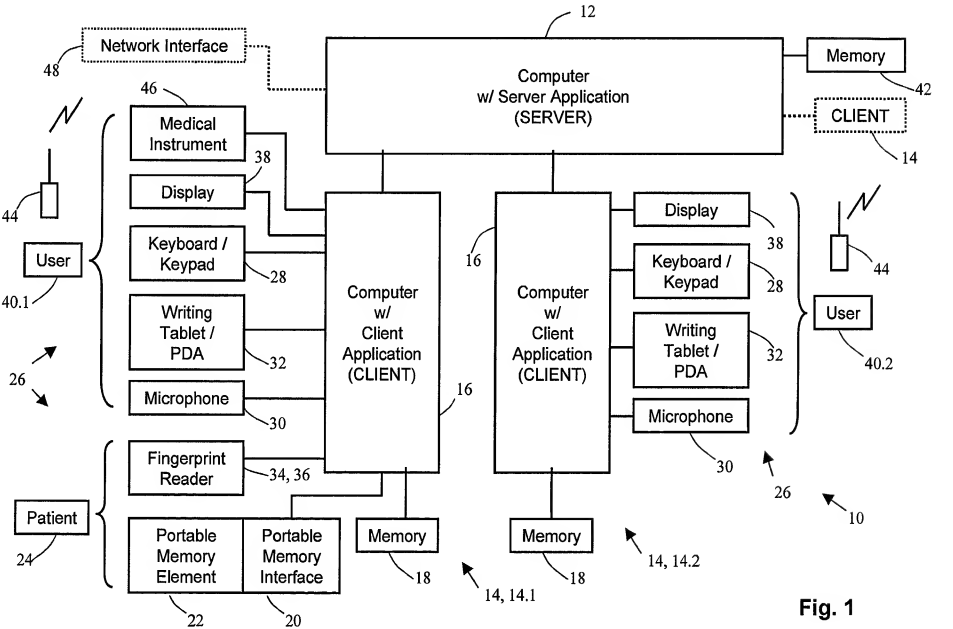

Fig. 1

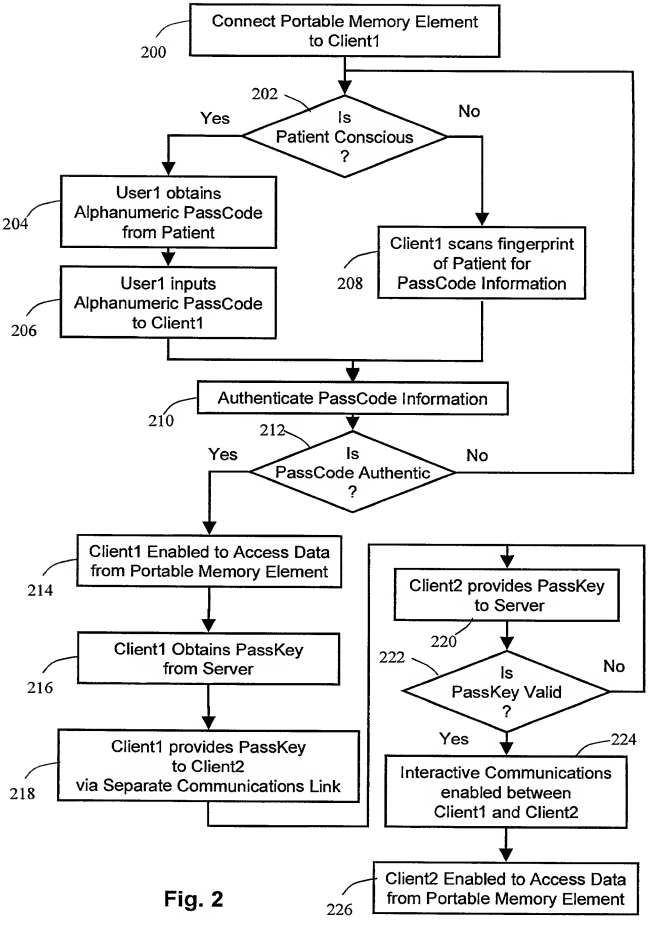
Connect Portable Memory Element to Client1
200
202
Is Patient Conscious ?
Yes
No
User1 obtains Alphanumeric PassCode from Patient
204
User1 inputs Alphanumeric PassCode to Client1
206
Client1 scans fingerprint of Patient for PassCode Information
208
Authenticate PassCode Information
210
212
Is PassCode Authentic ?
Yes
No
Client1 Enabled to Access Data from Portable Memory Element
214
Client1 Obtains PassKey from Server
216
Client1 provides PassKey to Client2 via Separate Communications Link
218
Client2 provides PassKey to Server
220
222
Is PassKey Valid ?
No
Yes
224
Interactive Communications enabled between Client1 and Client2
Client2 Enabled to Access Data from Portable Memory Element
226

Fig. 2

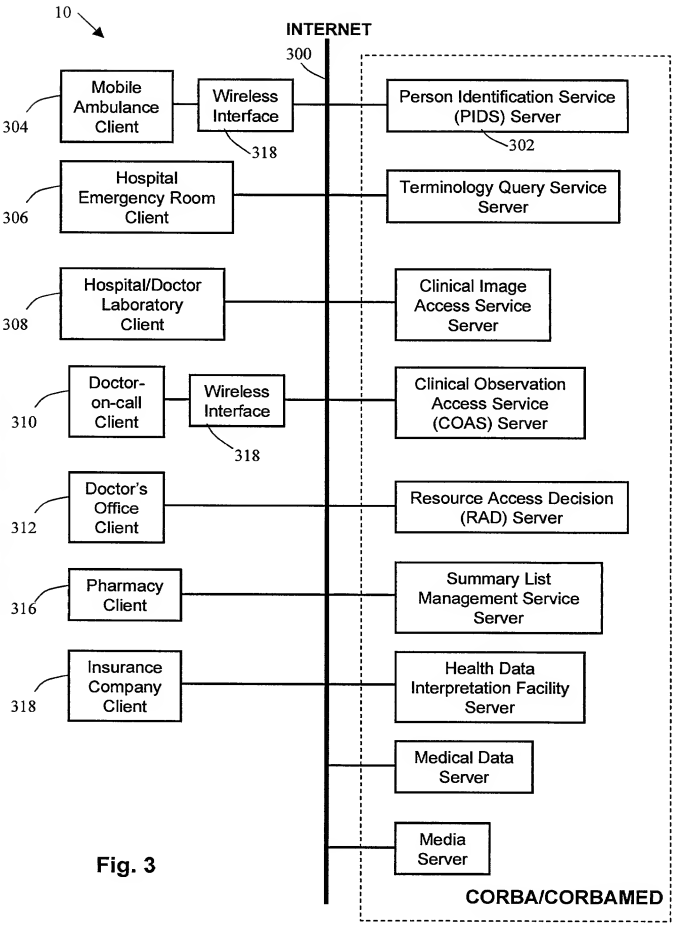
10
INTERNET
300
Mobile Ambulance Client
304
Wireless Interface
318
Person Identification Service (PIDS) Server
302
Hospital Emergency Room Client
306
Terminology Query Service Server
Hospital/Doctor Laboratory Client
308
Clinical Image Access Service Server
Doctor-on-call Client
310
Wireless Interface
318
Clinical Observation Access Service (COAS) Server
Doctor's Office Client
312
Resource Access Decision (RAD) Server
Pharmacy Client
316
Summary List Management Service Server
Insurance Company Client
318
Health Data Interpretation Facility Server
Medical Data Server
Media Server
CORBA/CORBAMED

Fig. 3

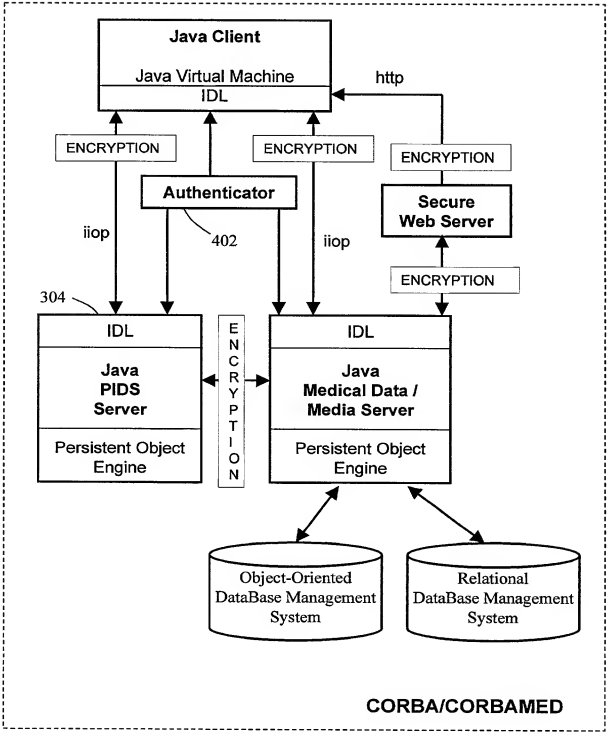
Java Client
Java Virtual Machine
IDL
http
ENCRYPTION
ENCRYPTION
ENCRYPTION
Authenticator
Secure
Web Server
iiop
402
iiop
ENCRYPTION
304
IDL
Java
PIDS
Server
Persistent Object
Engine
ENCRYPTION
IDL
Java
Medical Data /
Media Server
Persistent Object
Engine
Object-Oriented
DataBase Management
System
Relational
DataBase Management
System
CORBA/CORBAMED

Fig. 4

Fig. 5

Data Type	I VISTA SYSTEM	II CHCS	III-A Private Sector Inpatient/Outpatient Services	III-B Private Sector Emergency Services
Appointment System		X	X	
Patient Record System	X		X	
Dentistry	X			
Dietetics	X			
Hospital Based Home Care	X			
Immunology Case Registry	X			
Integrated Imaging System	X			
Laboratory	X	X	X	X
Medicine	X		X	
Mental health	X			
Network Health Exchange	X			
Nursing	X			
Oncology	X			
Pharmacy	X	X	X	
Prosthetics	X			
QUASAR	X			
Radiology/Nuclear Medicine	X	X	X	
Remote Order Entry	X			
Social Work	X			
Spinal Cord Dysfunction Registry	X			
Surgery	X		X	
Patient Administration		X		
Medical Services Accounting		X		
Clinical		X		
Dietetics		X		
Facility Quality Assurance		X		
Managed Care Program		X		
Insurance Information/Billing			X	X
Personal Information				X
Family History				X
Past History				X
Physical Examination				X
Progress Notes			X	X
Emergency Contact				X